

10/566866

ERP02.002APC SEQUENCE LISTING

SEQUENCE LISTING

<110> Werling, Dirk

<120> ANTIGEN DELIVERY SYSTEM

<130> ERP02.002APC

<150> PCT/GB2004/003386

<151> 2004-08-05

<150> GB 0318247.4

<151> 2003-08-05

<160> 15

<170> FastSEQ for windows Version 4.0

<210> 1

<211> 577

<212> DNA

<213> Bos taurus

<220>

<221> misc_feature

<222> 34, 53, 189, 258, 289, 357

<223> n = A,T,C or G

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<212> DNA

<213> Pan troglodytes

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<212> DNA

<213> Macaca mulatta

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 <213> Mus musculus

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 <212> PRT
 <213> Bos taurus

<220>
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 Val Gly Glu Leu Ser Glu Lys Ser Lys Leu Gln Glu Ile Tyr Gln Glu
 35 40 45
 Leu Thr Gln Leu Lys Ala Ala Val Gly Glu Leu Pro Glu Lys Xaa Lys
 50 55 60
 Gln Gln Glu Ile Tyr Gln Glu Leu Thr Arg Leu Lys Ala Ala Val Gly
 65 70 75 80
 Glu Leu Pro Glu Lys Xaa Lys Leu Gln Glu Ile Tyr Gln Glu Leu Thr
 85 90 95
 Xaa Leu Lys Ala Ala Val Gly Glu Leu Pro Glu Lys Ser Lys Met Gln
 100 105 110
 Glu Ile Tyr Gln Glu Leu Xaa Arg Leu Lys Ala Ala Val Gly Glu Xaa
 115 120 125
 Pro Glu Lys Ser Lys Gln Gln Glu Ile Tyr Gln Glu Leu Thr Arg Leu
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 145 150 155 160

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<210> 7
 <211> 404
 <212> PRT
 <213> Pan troglodytes

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 Ser Phe Thr Leu Leu Ala Gly Leu Leu Val Gln Val Ser Lys Val Pro
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 65 70 75 80
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 Glu Leu Pro Glu Lys Ser Lys Gln Glu Ile Tyr Gln Glu Leu Thr
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 Arg Leu Lys Ala Ala Val Gly Glu Leu Pro Glu Lys Ser Lys Met Gln
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 145 150 155 160
 Pro Glu Lys Ser Lys Met Gln Glu Ile Tyr Gln Glu Leu Thr Arg Leu
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 Tyr Gln Glu Leu Thr Arg Leu Lys Ala Ala Val Gly Glu Leu Pro Glu
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 Ala Val Gly Glu Leu Pro Glu Lys Ser Lys Gln Gln Glu Ile Tyr Gln
 225 230 235 240
 Glu Leu Thr Gln Leu Lys Ala Ala Val Glu Arg Leu Cys Arg Arg Cys
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 275 280 285
 Ala Gln Leu Val Val Ile Lys Ser Ala Glu Glu Gln Asn Phe Leu Gln
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 340 345 350
 Glu Glu Asp Cys Ala Glu Phe Ser Gly Asn Gly Trp Asn Asp Asp Lys
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ERP02.002APC SEQLIST.TXT

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 <213> Homo sapiens

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 65 70 75 80
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 Pro Ser Phe Lys Gln Tyr Trp Asn Arg Gly Glu Pro Asn Asn Val Gly
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 355 360 365
 Cys Asn Leu Ala Lys Phe Trp Ile Cys Lys Lys Ser Ala Ala Ser Cys
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ERP02.002APC SEQLIST.TXT

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 <213> Macaca mulatta

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 Glu Leu Ile Gln Leu Lys Ala Ala Val Glu Arg Leu Cys His Pro Cys
 245 250 255
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 275 280 285
 Ala Gln Leu Val Val Ile Lys Ser Ala Glu Glu Gln Asn Phe Leu Gln
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 340 345 350
 Glu Glu Asp Cys Ala Glu Phe Ser Gly Asn Gly Trp Asn Asp Asp Lys
 355 360 365
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ERP02.002APC SEQLIST.TXT

<213> Bos taurus

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Lys Val Pro Ser Ser Ile Ser Gln Glu Gln Ser Arg Gln Asp Ala Ile
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Tyr Gln Asn Leu Thr Gln Leu Lys Ala Ala Val Gly Glu Leu Ser Glu
85      90      95
Lys Ser Lys Leu Gln Glu Ile Tyr Gln Glu Leu Thr Gln Leu Lys Ala
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Ala Val Gly Glu Leu Pro Glu Lys Ser Lys Leu Gln Glu Ile Tyr Gln
115     120     125
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Gly Glu Leu Pro Glu Lys Ser Lys Met Gln Glu Ile Tyr Gln Glu Leu
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Thr Arg Leu Lys Ala Ala Val Gly Glu Leu Pro Glu Lys Ser Lys Gln
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225     230     235     240
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 <213> Mus musculus

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 Gly Phe Gln Thr Asn Ser Gly Phe Ser Ser Phe Thr Gly Cys Leu Val
 35 40 45
 His Ser Gln Val Pro Leu Ala Leu Gln Val Leu Phe Leu Ala Val Cys
 50 55 60
 Ser Val Leu Leu Val Val Ile Leu Val Lys Val Tyr Lys Ile Pro Ser
 65 70 75 80
 Ser Gln Glu Glu Asn Asn Gln Met Asn Val Tyr Gln Glu Leu Thr Gln
 85 90 95
 Leu Lys Ala Gly Val Asp Arg Leu Cys Arg Ser Cys Pro Trp Asp Trp
 100 105 110
 Thr His Phe Gln Gly Ser Cys Tyr Phe Phe Ser Val Ala Gln Lys Ser
 115 120 125
 Trp Asn Asp Ser Ala Thr Ala Cys His Asn Val Gly Ala Gln Leu Val
 130 135 140
 Val Ile Lys Ser Asp Glu Glu Gln Asn Phe Leu Gln Gln Thr Ser Lys
 145 150 155 160
 Lys Arg Gly Tyr Thr Trp Met Gly Leu Ile Asp Met Ser Lys Glu Ser
 165 170 175
 Thr Trp Tyr Trp Val Asp Gly Ser Pro Leu Thr Leu Ser Phe Met Lys
 180 185 190
 Tyr Trp Ser Lys Gly Glu Pro Asn Asn Leu Gly Glu Glu Asp Cys Ala
 195 200 205
 Glu Phe Arg Asp Asp Gly Trp Asn Asp Thr Lys Cys Thr Asn Lys Lys
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 Phe Trp Ile Cys Lys Lys Leu Ser Thr Ser Cys Pro Ser Lys
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<210> 13
 <211> 251
 <212> PRT
 <213> Bos taurus

<400> 13
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 20 25 30
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LRR 02.002A1.C SEQUENCE															
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Val	Gln	Val	Ser	Arg	Ile	Gln	Cys	Leu	Gln	Arg	Asp	Ser	Gly	Asp	Arg
65					70					75					80
Glu	Asn	Asn	Ser	Leu	Asp	Lys	Trp	Leu	Asp	Thr	Arg	Phe	Arg	Ser	Leu
				85					90					95	
Thr	Glu	Val	Ala	Glu	Lys	Gln	Met	Gln	Ser	Asn	Leu	Glu	Lys	Ile	Leu
			100					105					110		
Gln	Arg	Leu	Thr	Arg	Met	Asn	Ala	Thr	Leu	Ala	Gly	Leu	Cys	His	Pro
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Cys	Pro	Gln	Asn	Trp	Glu	Phe	Phe	Asp	Gly	Ser	Cys	Tyr	Phe	Phe	Ser
	130					135					140				
Trp	Thr	Gln	Ser	Asp	Trp	Arg	Ser	Ala	Val	Ser	Ala	Cys	Leu	Leu	Ile
145					150					155					160
Gly	Ala	His	Leu	Val	Ile	Ile	Glu	Ser	Thr	Glu	Glu	Glu	Lys	Phe	Leu
				165					170					175	
Asn	Phe	Trp	Tyr	Pro	Arg	Asn	Asn	Lys	Pro	Thr	Trp	Ile	Gly	Leu	Ser
			180					185					190		
Asp	His	His	Ser	Glu	Gly	Ser	Trp	Arg	Trp	Val	Asp	Asp	Ser	Pro	Val
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Gln	Leu	Ser	Phe	Trp	Lys	Lys	Gly	Glu	Pro	Asn	Asn	His	Gly	Asp	Glu
	210					215					220				
Asp	Cys	Val	Glu	Leu	His	Asn	Asp	Gly	Trp	Asn	Asp	Gly	Arg	Cys	Val
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<210> 14
<211> 251
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<213> Bos taurus
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<400> 14

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Gly 1	Gly 1	Gln 1	Arg 20	Leu 5	Ala 1	Glu 1	Arg 1	His 25	Pro 1	Arg 1	Pro 1	Leu 1	His 30	Ser 1	Leu 1
Arg 1	Ser 1	Leu 35	Ser 1	Glu 1	Cys 1	Leu 1	Thr 40	Trp 1	Gly 1	Pro 1	Leu 1	Leu 45	Leu 1	Leu 1	Leu 1
Leu 1	Leu 50	Phe 1	Val 1	Ser 1	Leu 1	Gly 55	Phe 1	Phe 1	Thr 1	Leu 1	Gln 60	Leu 1	Thr 1	Thr 1	Leu 1
Val 65	Gln 1	Val 1	Ser 1	Arg 1	Ile 70	Gln 1	Cys 1	Leu 1	Gln 1	Arg 75	Asp 1	Ser 1	Gly 1	Asp 1	Arg 80
Glu 1	Asn 1	Asn 1	Ser 1	Leu 85	Asp 1	Lys 1	Trp 1	Leu 1	Asp 90	Thr 1	Arg 1	Phe 1	Arg 1	Ser 95	Leu 1
Thr 1	Glu 1	Val 1	Ala 100	Glu 1	Lys 1	Gln 1	Met 1	Gln 105	Ser 1	Asn 1	Leu 1	Glu 1	Lys 110	Ile 1	Leu 1
Gln 1	Arg 1	Leu 115	Thr 1	Arg 1	Met 1	Asn 1	Ala 120	Thr 1	Leu 1	Ala 1	Gly 1	Leu 125	Cys 1	His 1	Pro 1
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Gly 1	Ala 1	His 1	Leu 1	Val 165	Ile 1	Ile 1	Glu 1	Ser 1	Thr 170	Glu 1	Glu 1	Glu 1	Lys 175	Phe 1	Leu 1
Asn 1	Phe 1	Trp 1	Tyr 180	Pro 1	Arg 1	Asn 1	Asn 1	Lys 185	Pro 1	Thr 1	Trp 1	Ile 1	Gly 190	Leu 1	Ser 1
Asp 1	His 1	His 195	Ser 1	Glu 1	Gly 1	Ser 1	Trp 200	Arg 1	Trp 1	Val 1	Asp 1	Asp 205	Ser 1	Pro 1	Val 1
Gln 1	Leu 210	Ser 1	Phe 1	Trp 1	Lys 1	Lys 215	Gly 1	Glu 1	Pro 1	Asn 1	Asn 220	His 1	Gly 1	Asp 1	Glu 1

ERP02.002APC SEQLIST.TXT

Asp	Cys	Val	Glu	Leu	His	Asn	Asp	Gly	Trp	Asn	Asp	Gly	Arg	Cys	Val
225					230					235					240
Thr	Glu	Asn	Pro	Trp	Ile	Cys	Glu	Lys	Pro	Ser					
				245					250						

<210> 15

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> Amplification primer

<400> 15

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22